CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 21-626

MICROBIOLOGY REVIEW

Product Quality Microbiology Review Review for HFD-160

May 16, 2003

NDA:

Drug Product Name

Proprietary: Radiogardase®

Non-proprietary: Prussian Blue (Insoluble)

21-626

Drug Product Classification: Radioprotectant

Review Number: 1

Subject of this Review

Submission Date: March 10, 2003
Receipt Date: March 14, 2003
Consult Date: March 24, 2003

Date Assigned for Review: March 25, 2003

Submission History (for amendments only)

Date(s) of Previous Submission(s): NA
Date(s) of Previous Micro Review(s): NA

Applicant/Sponsor

Name: Heyl Chemisch-pharmazeutische Fabrik GmbH & Co. KG

Address: Goerzallee 253

D-14167 Berlin (Germany)
Representative: Dr. Brigitte Simons-Horvath

Telephone: 00 49 30 816-96 29

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Name of Reviewer: John W. Metcalfe

Conclusion: Recommended for Approval

Executive Summary

- I. Recommendations
 - A. Recommendation on Approvability Recommended for approval from the standpoint of microbiological product quality.
 - B. Recommendations on Phase 4 Commitments and/or Agreements, if Approvable NA
- II. Summary of Microbiology Assessments
 - A. Brief Description of the Manufacturing Processes that relate to Product Quality Microbiology –

See comments below on microbial limits.

- B. Brief Description of Microbiology Deficiencies NA
- C. Assessment of Risk Due to Microbiology Deficiencies NA
- III. Administrative
 - A. Reviewer's Signature
 - B. Endorsement Block
 John W. Metcalfe, Ph.D.
 Peter Cooney, Ph.D.
 - C. CC Block In DFS

Product Quality Microbiology Assessment MAINTENANCE OF MICROBIOLOGICAL CONTROL AND QUALITY: STABILITY CONSIDERATIONS

- Container Closure Integrity: NA
- Pyrogen/Endotoxin Testing: NA
- Microbial Limits Testing

Testing for microbial limits is performed according to specification in the European Pharmacopeia. The European Pharmacopeia provides the following microbial limits for preparations for oral administration. Not more than 10³ aerobic bacteria or 10² yeasts and molds per gram, and an absence in 10 grams of E. coli. Salmonella, Pseudomonas aeruginosa and Staphylococcus aureus. Data provided by the sponsor for Radiogardase CS-Heyl, batch 911035 (May 11, 1995) indicate recovery of <10 CFU/g of aerobic bacteria, <10 CFU/g of anaerobic bacteria, <10 CFU/g of yeast and molds, and a complete absence of the specific bacteria cited above.

Satisfactory

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

John Metcalfe 5/29/03 01:58:19 PM MICROBIOLOGIST

Peter Cooney 5/29/03 02:55:21 PM MICROBIOLOGIST